

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051690.D
 Acq On : 5 Oct 2018 16:34
 Operator : MD\SY
 Sample : J5253-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(SEP)

Quant Time: Oct 05 23:08:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	94645	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	526737	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	438266	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	193900	29.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.40%
60) 4-Bromofluorobenzene	12.40	95	158338	23.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.93%
63) Toluene-d8	10.09	98	611730	31.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.80%

Target Compounds

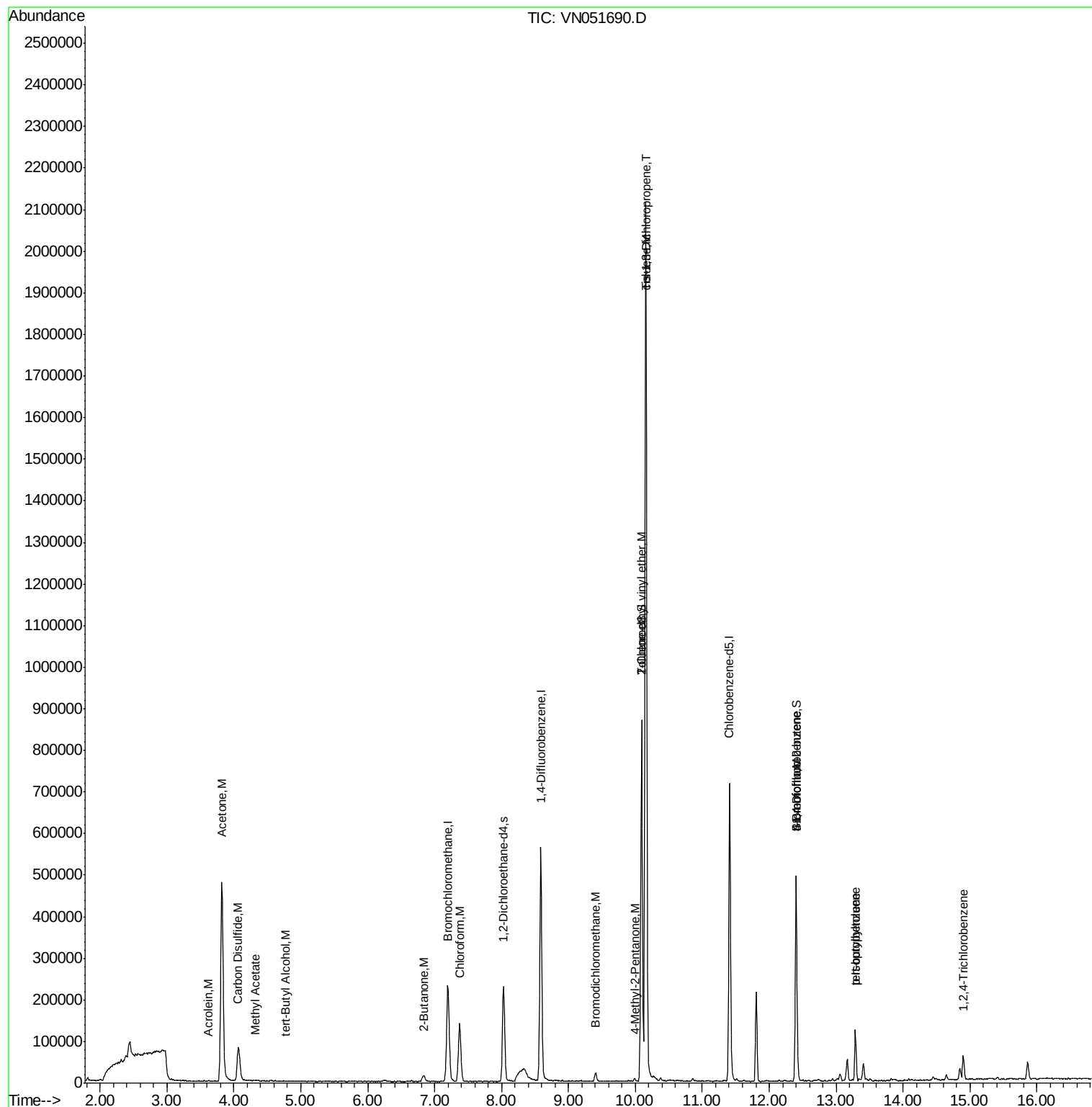
					Ovalue	
12) Methyl Acetate	4.33	43	1718	0.493	ug/l #	48
13) Acrolein	3.63	56	173	0.675	ug/l	87
15) Acetone	3.82	58	243998	717.245	ug/l	77
16) Carbon Disulfide	4.05	76	4537	0.359	ug/l #	71
23) tert-Butyl Alcohol	4.79	59	248	0.674	ug/l #	100
25) Chloroform	7.37	83	139129	13.623	ug/l	94
30) 2-Butanone	6.84	43	5547	3.253	ug/l #	96
41) Bromodichloromethane	9.40	83	13151	1.642	ug/l	91
49) cis-1,3-Dichloropropene	10.15	75	10629	1.217	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.09	63	639	0.240	ug/l #	1
56) Bromoform	12.40	173	1880	0.395	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	5156	1.433	ug/l #	91
62) Toluene	10.16	91	1639485	73.849	ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	86854	52.821	ug/l #	12
79) tert-butylbenzene	13.29	119	67128	3.323	ug/l	58
82) p-Isopropyltoluene	13.29	119	67128	2.819	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	97	6.845	ug/l #	58

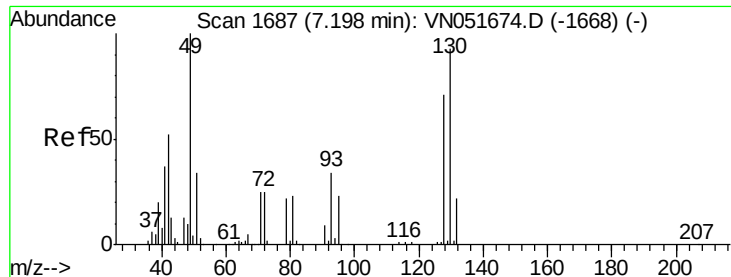
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)

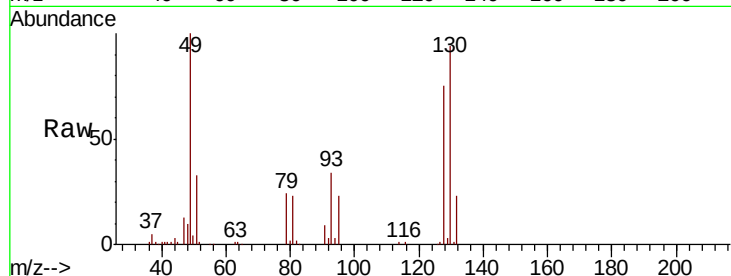
Tot Ion:128 Resp: 94645

Ion Ratio Lower Upper

128 100

49 135.4 0.0 403.3

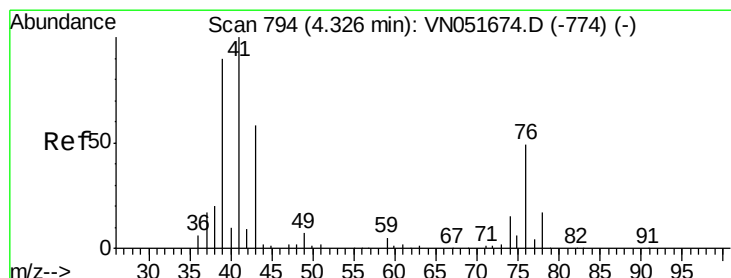
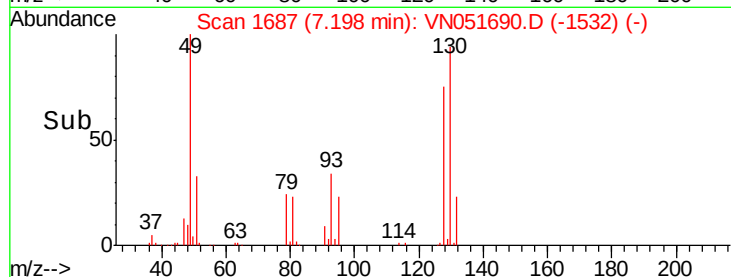
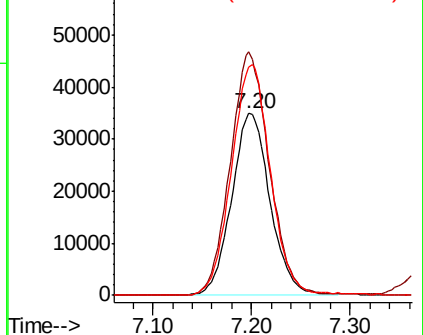
130 128.0 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.493 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051690.D

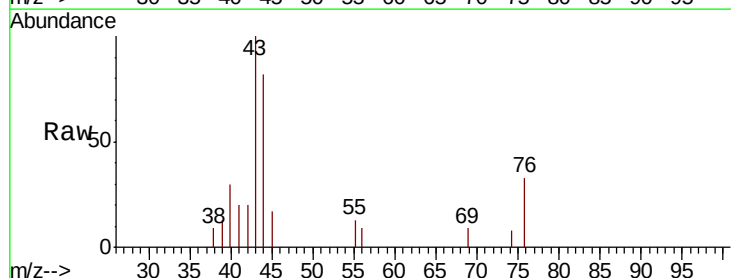
Acq: 5 Oct 2018 16:34

Tgt Ion: 43 Resp: 1718

Ion Ratio Lower Upper

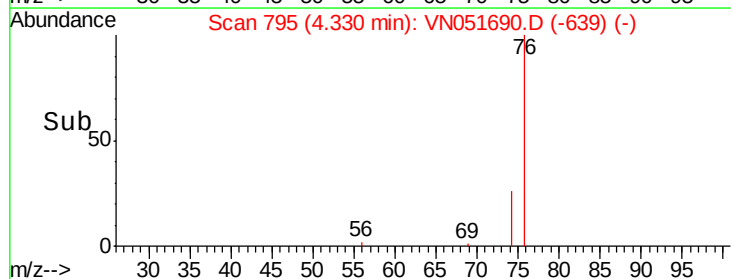
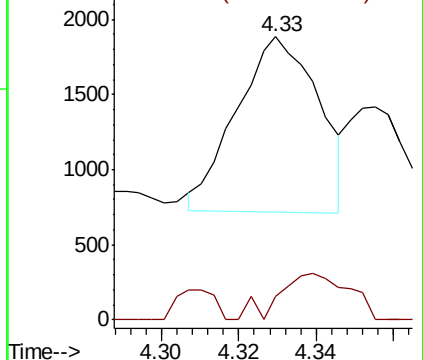
43 100

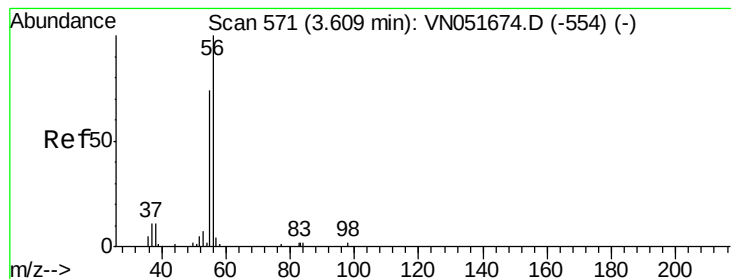
74 0.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





#13

Acrolein

Concen: 0.675 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

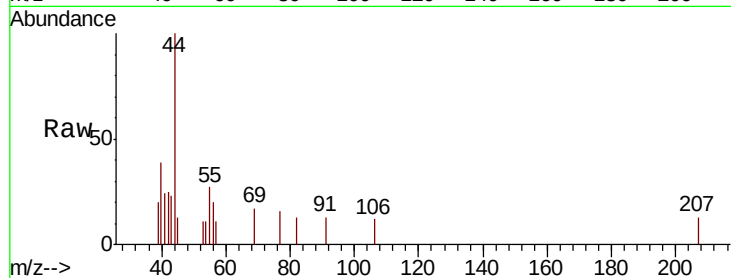
002M-35TH-AVE(SEP)

Tot Ion: 56 Resp: 173

Ion Ratio Lower Upper

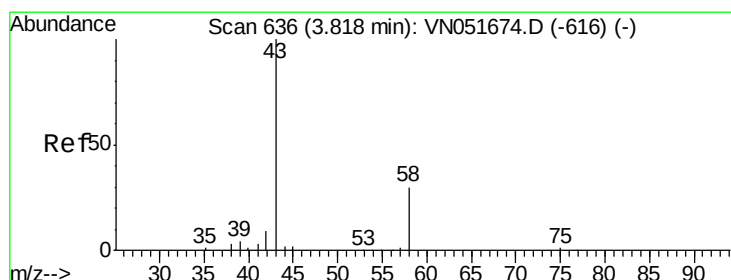
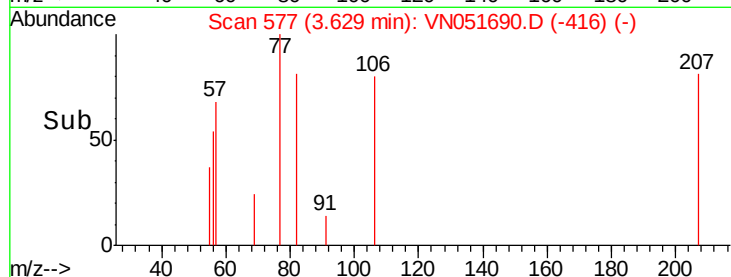
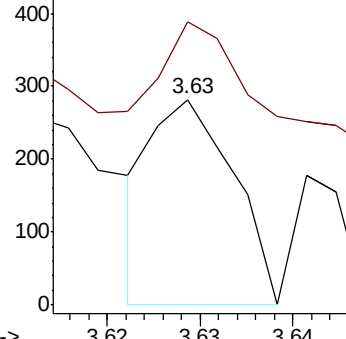
56 100

55 68.2 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 717.245 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051690.D

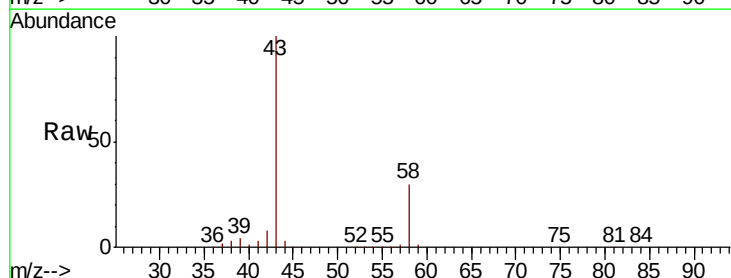
Acq: 5 Oct 2018 16:34

Tgt Ion: 58 Resp: 243998

Ion Ratio Lower Upper

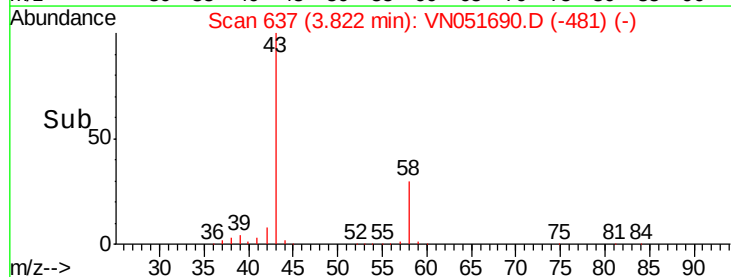
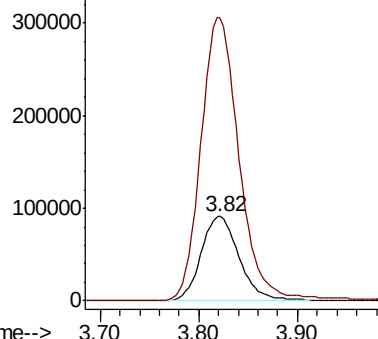
58 100

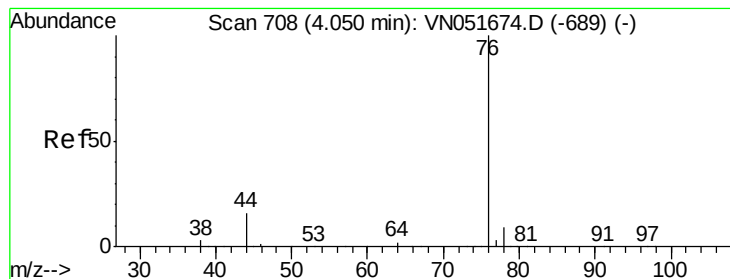
43 334.1 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.359 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

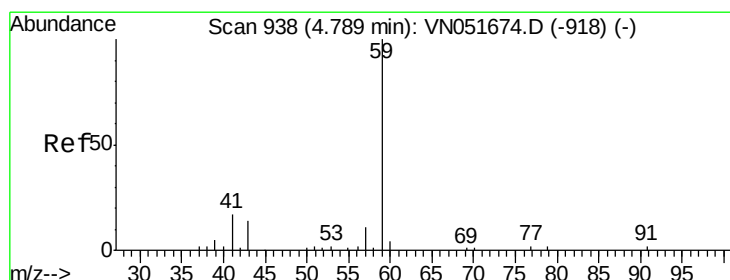
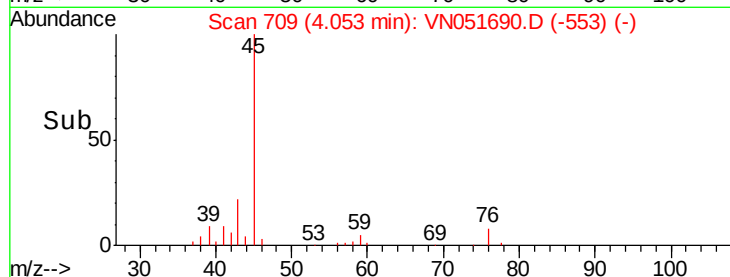
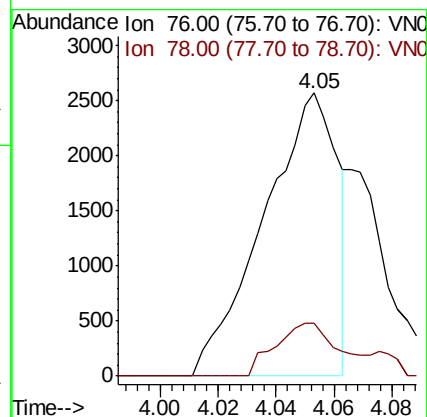
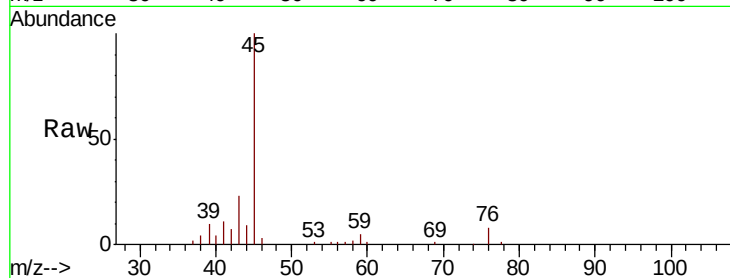
002M-35TH-AVE(SEP)

Tot Ion: 76 Resp: 4537

Ion Ratio Lower Upper

76 100

78 18.6 6.7 10.1#



#23

tert-Butyl Alcohol

Concen: 0.674 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.00 min

Lab File: VN051690.D

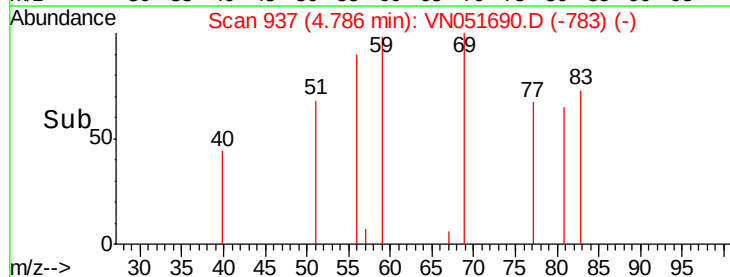
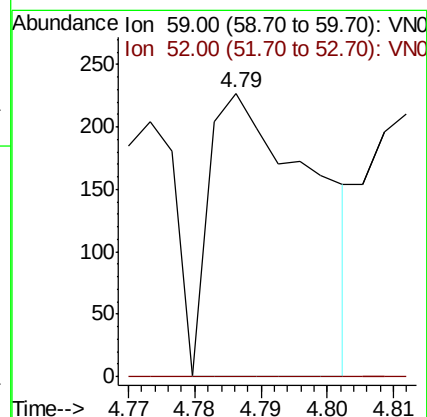
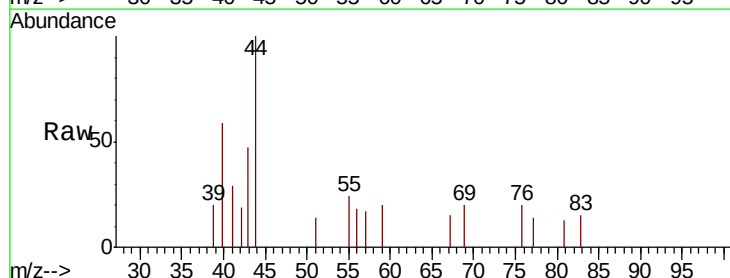
Acq: 5 Oct 2018 16:34

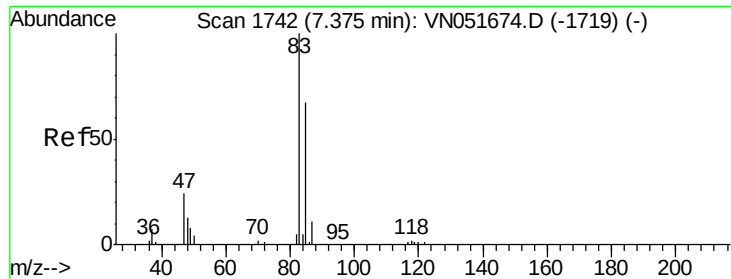
Tgt Ion: 59 Resp: 248

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 13.623 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

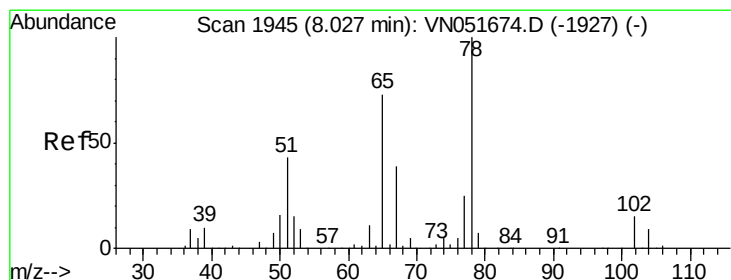
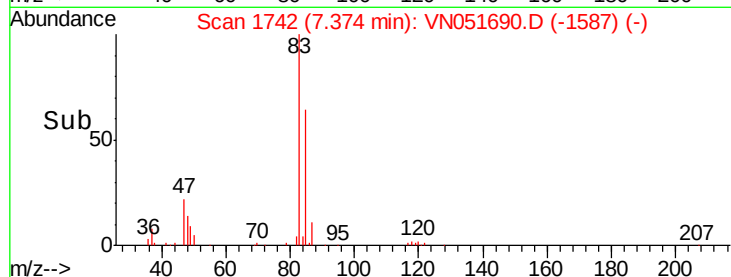
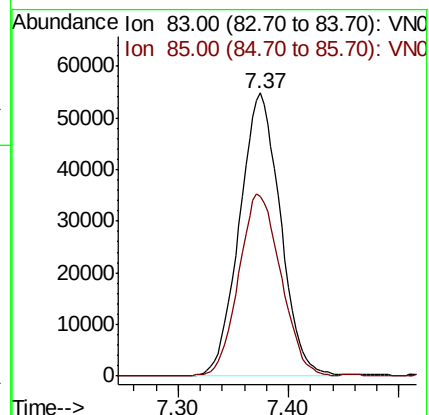
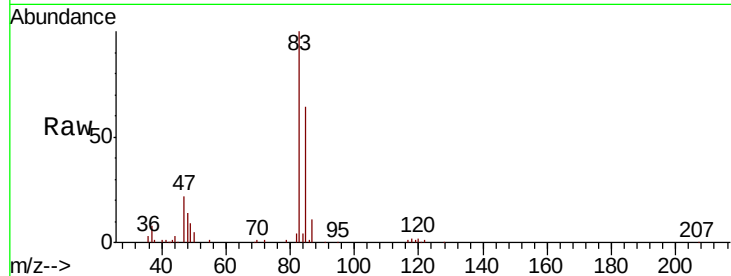
002M-35TH-AVE(SEP)

Tot Ion: 83 Resp: 139129

Ion Ratio Lower Upper

83 100

85 63.5 54.6 82.0



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051690.D

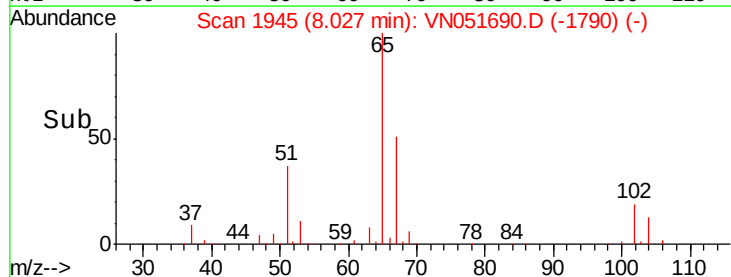
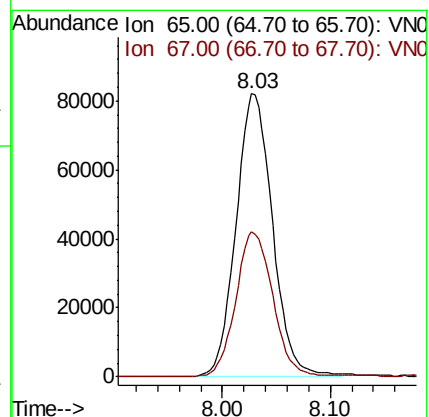
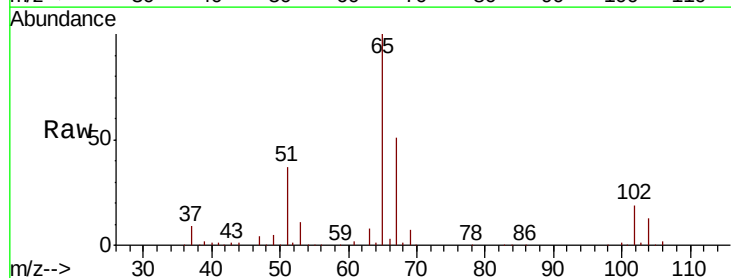
Acq: 5 Oct 2018 16:34

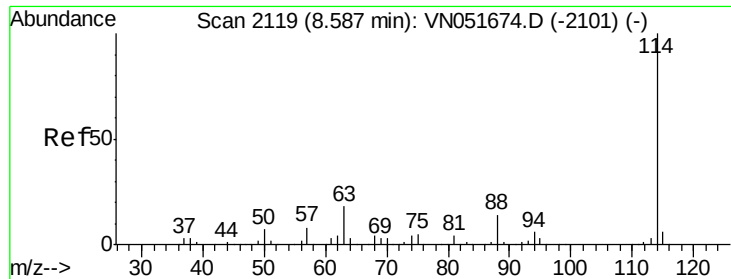
Tgt Ion: 65 Resp: 193900

Ion Ratio Lower Upper

65 100

67 51.8 41.8 62.8

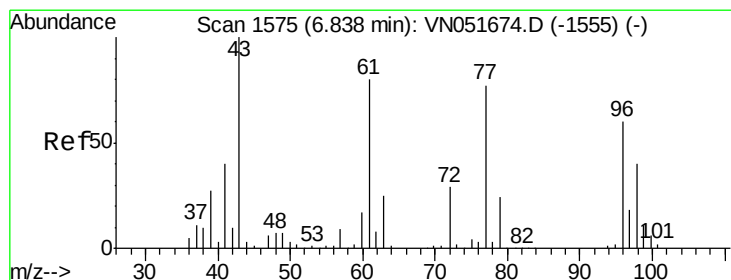
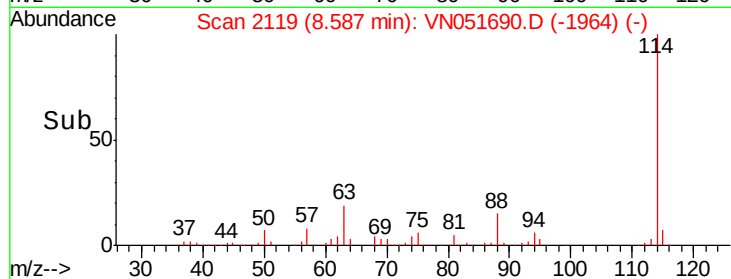
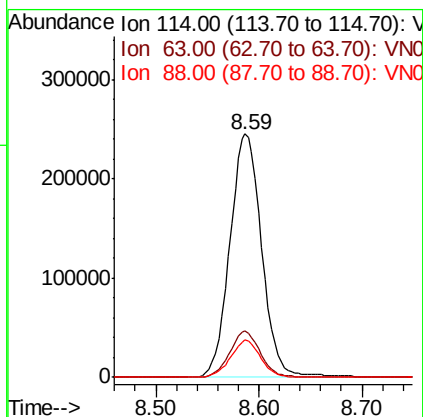
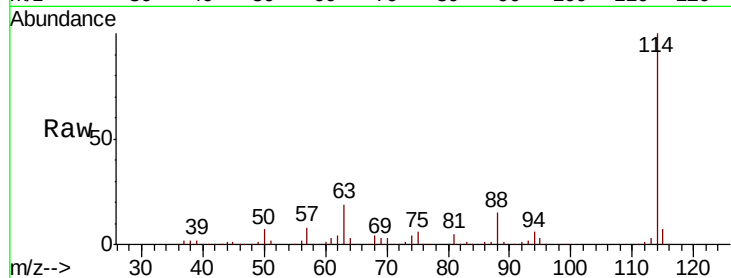




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051690.D
 Acq: 5 Oct 2018 16:34

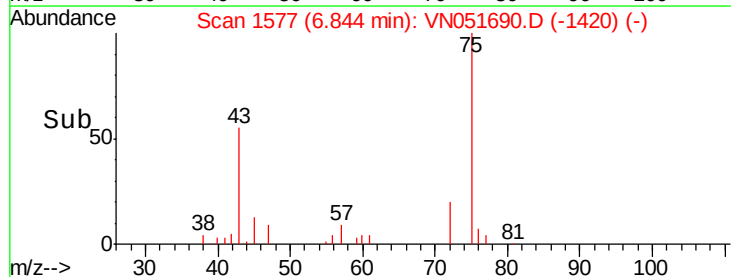
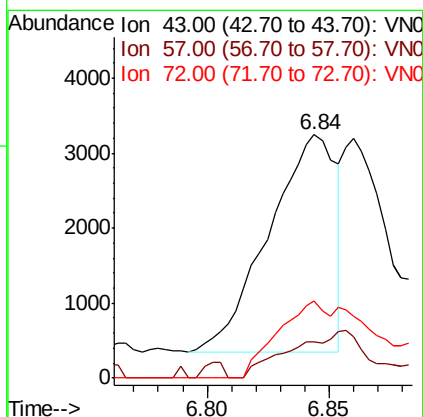
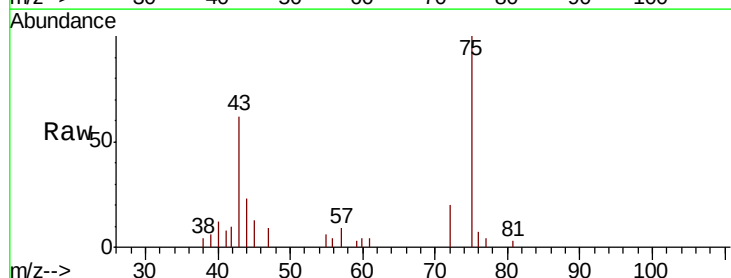
Instrument :
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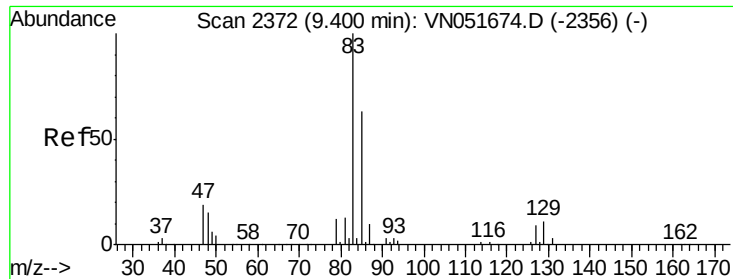
Tot Ion:114 Resp: 526737
 Ion Ratio Lower Upper
 114 100
 63 18.3 16.2 24.2
 88 14.6 12.2 18.4



#30
 2-Butanone
 Concen: 3.253 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN051690.D
 Acq: 5 Oct 2018 16:34

Tgt Ion: 43 Resp: 5547
 Ion Ratio Lower Upper
 43 100
 57 12.1 4.5 6.7#
 72 26.7 21.5 32.3





#41

Bromodichloromethane

Concen: 1.642 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)

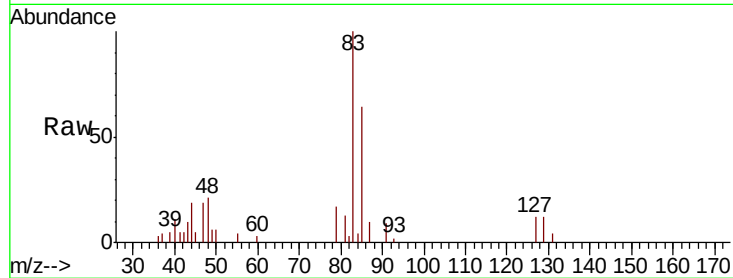
Tot Ion: 83 Resp: 13151

Ion Ratio Lower Upper

83 100

85 61.9 55.7 83.5

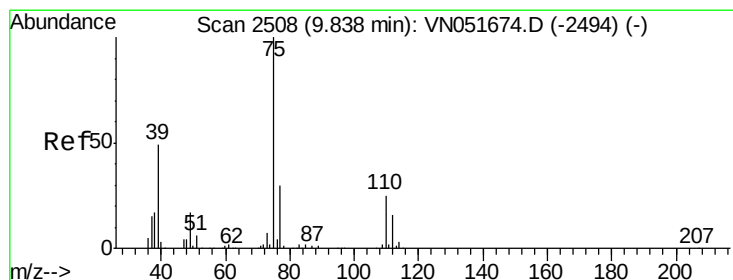
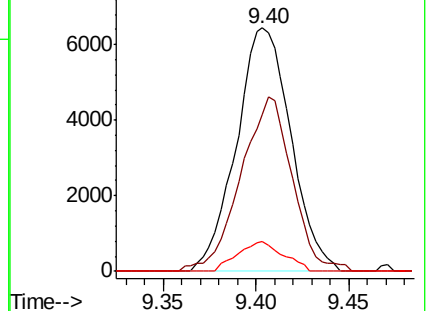
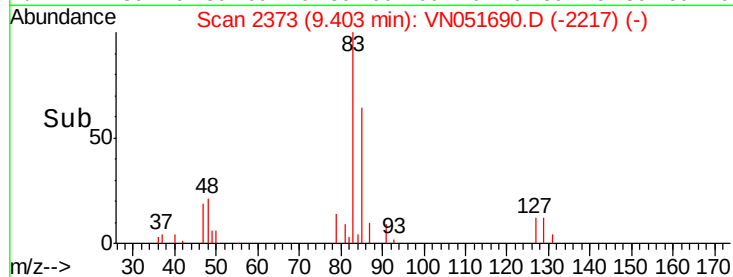
127 12.2 8.2 12.4



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#49

cis-1,3-Dichloropropene

Concen: 1.217 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.31 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

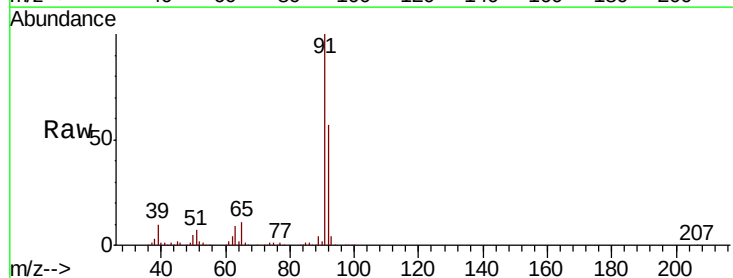
Tgt Ion: 75 Resp: 10629

Ion Ratio Lower Upper

75 100

77 167.0 23.2 34.8#

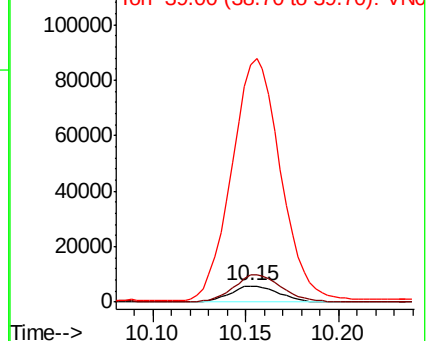
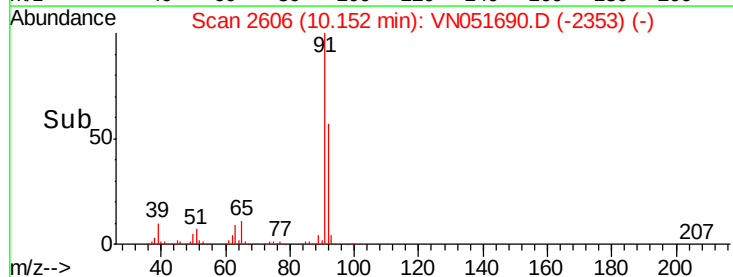
39 1468.6 34.6 52.0#

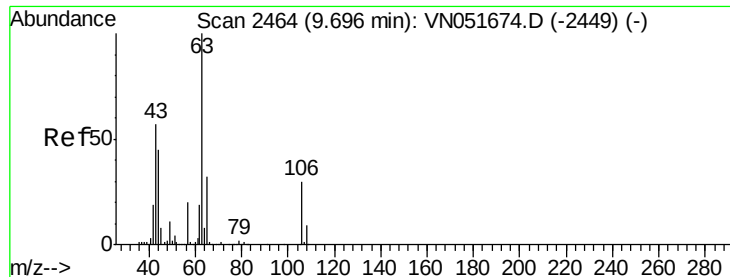


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

2-Chloroethyl vinyl ether

Concen: 0.240 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.40 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

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002M-35TH-AVE(SEP)

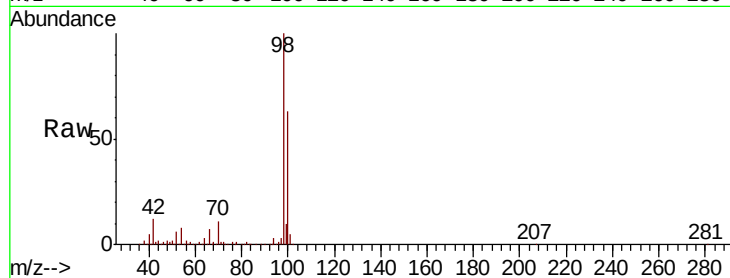
Tot Ion: 63 Resp: 639

Ion Ratio Lower Upper

63 100

65 172.5 25.4 38.0#

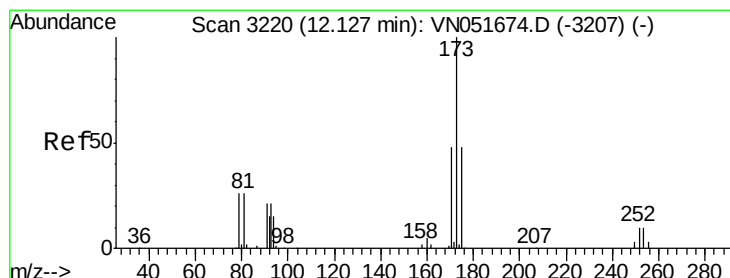
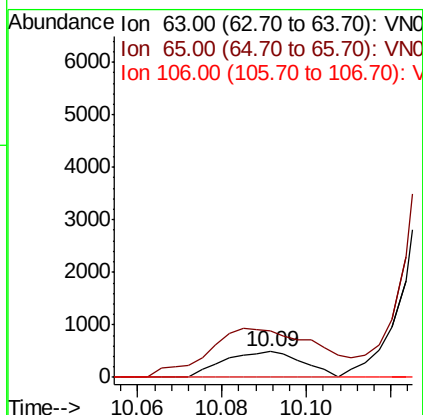
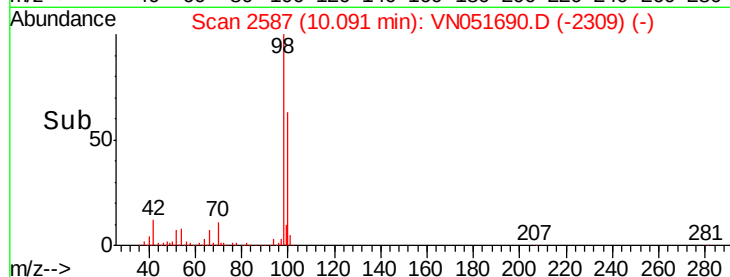
106 0.0 21.2 31.8#



Abundance Ion 63.00 (62.70 to 63.70): VN051674.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN051674.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN051674.D (-2449) (-)



#56

Bromoform

Concen: 0.395 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

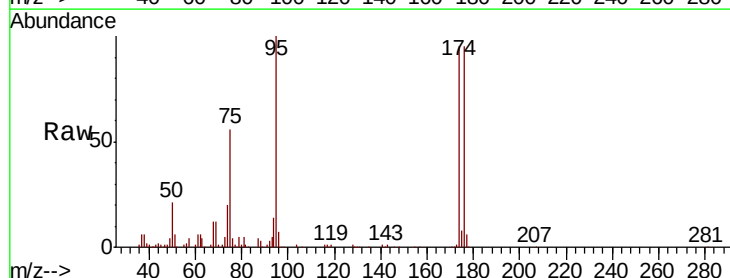
Tgt Ion: 173 Resp: 1880

Ion Ratio Lower Upper

173 100

175 638.6 35.8 53.8#

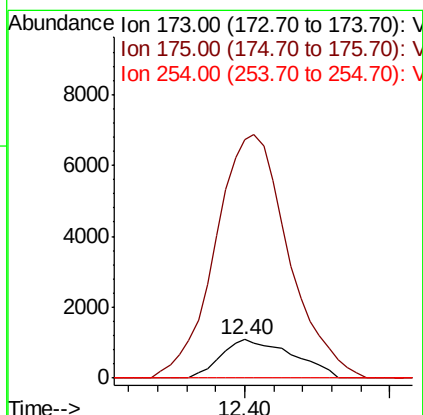
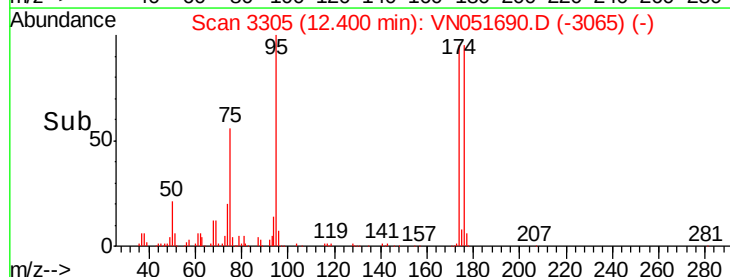
254 0.0 8.6 13.0#

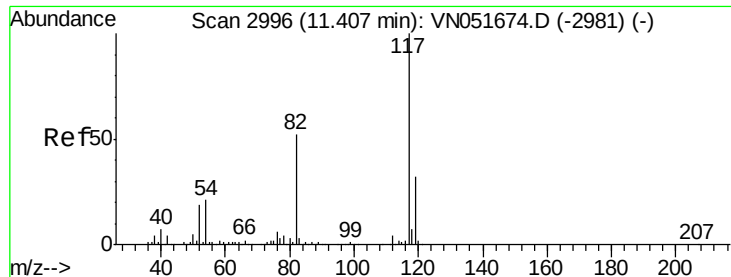


Abundance Ion 173.00 (172.70 to 173.70): VN051674.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN051674.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN051674.D (-3207) (-)

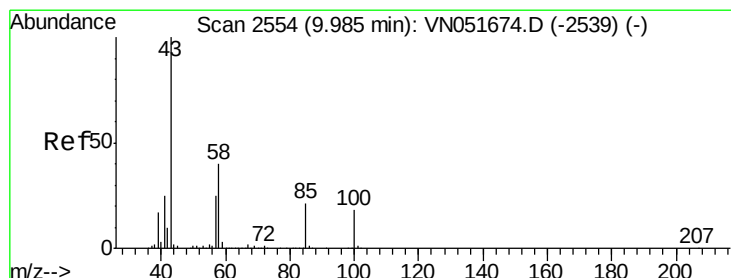
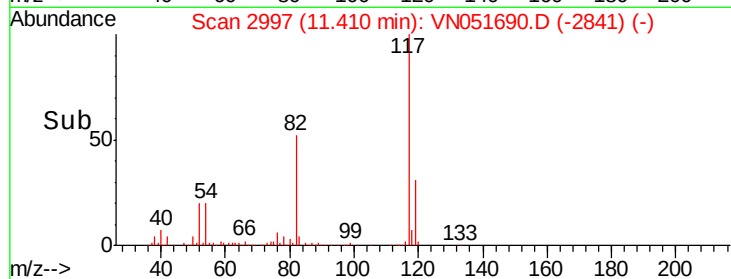
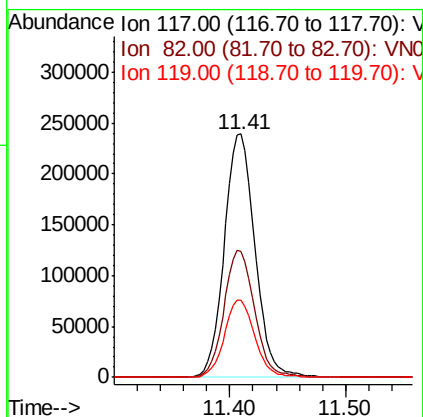
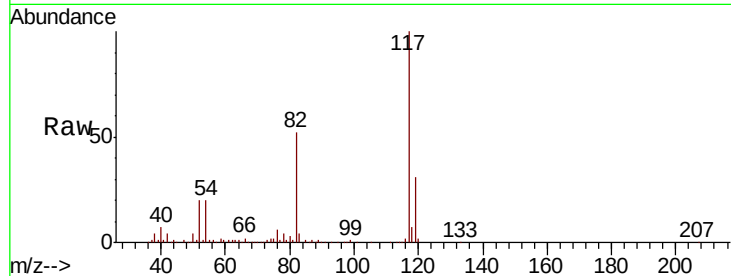




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051690.D
Acq: 5 Oct 2018 16:34

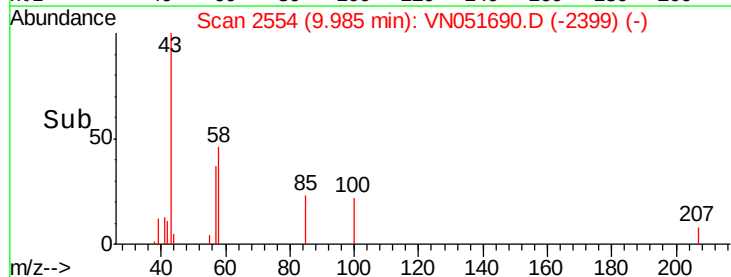
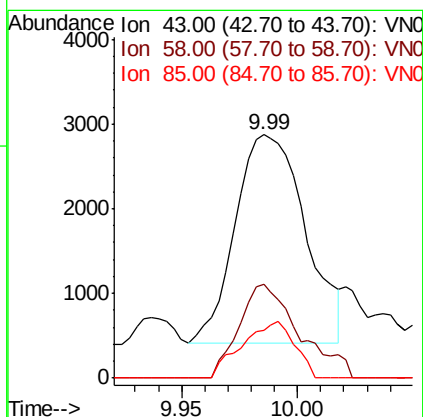
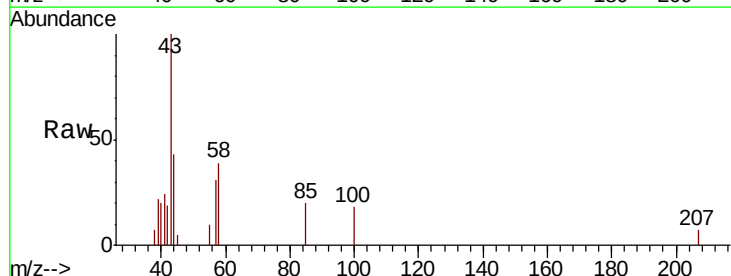
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

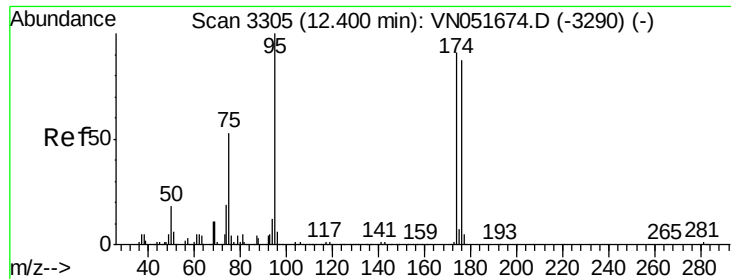
Tot Ion:117 Resp: 438266
Ion Ratio Lower Upper
117 100
82 52.2 44.1 66.1
119 31.6 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 1.433 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051690.D
Acq: 5 Oct 2018 16:34

Tgt Ion: 43 Resp: 5156
Ion Ratio Lower Upper
43 100
58 32.0 29.3 43.9
85 20.4 12.6 18.8#





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)

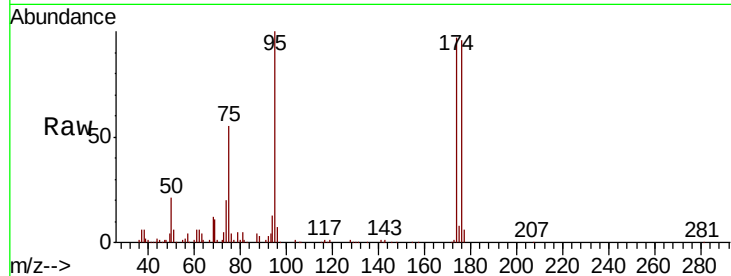
Tot Ion: 95 Resp: 158338

Ion Ratio Lower Upper

95 100

174 95.4 73.5 110.3

176 92.9 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): VN051674.D (-3290) (-)

Ion 174.00 (173.70 to 174.70): VN051674.D (-3290) (-)

Ion 176.00 (175.70 to 176.70): VN051674.D (-3290) (-)

120000

100000

80000

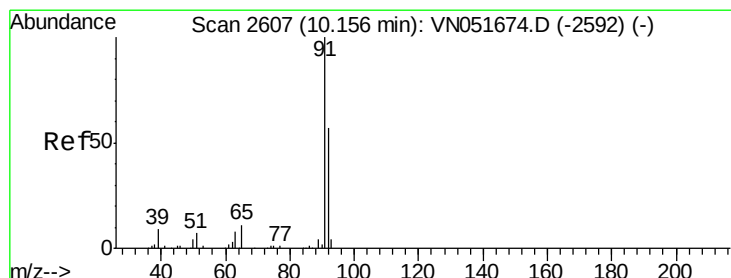
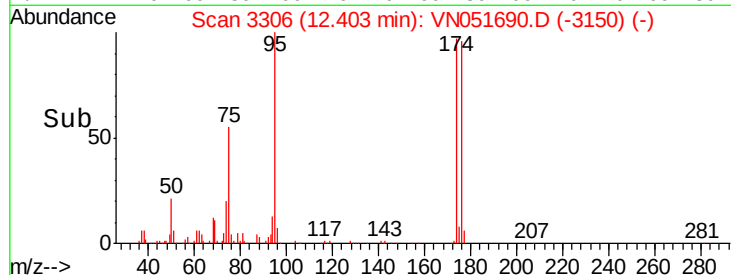
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#62

Toluene

Concen: 73.849 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051690.D

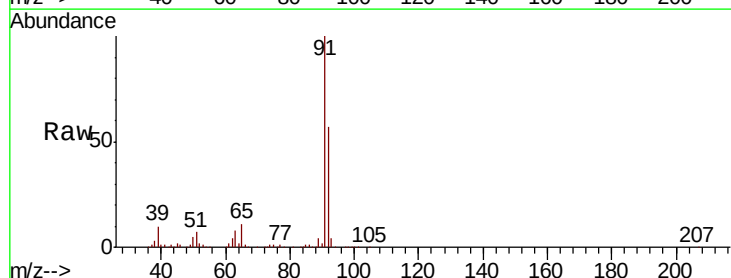
Acq: 5 Oct 2018 16:34

Tgt Ion: 91 Resp: 1639485

Ion Ratio Lower Upper

91 100

92 56.8 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN051674.D (-2592) (-)

Ion 92.00 (91.70 to 92.70): VN051674.D (-2592) (-)

1000000

800000

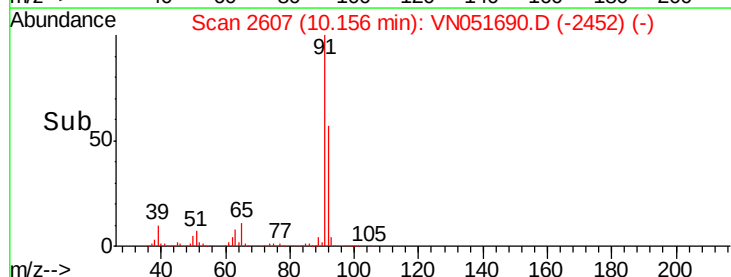
600000

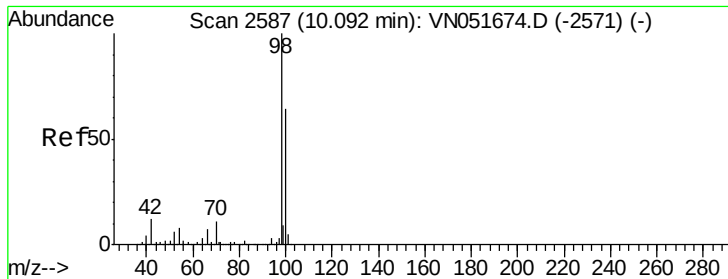
400000

200000

0

Time--> 10.10 10.20

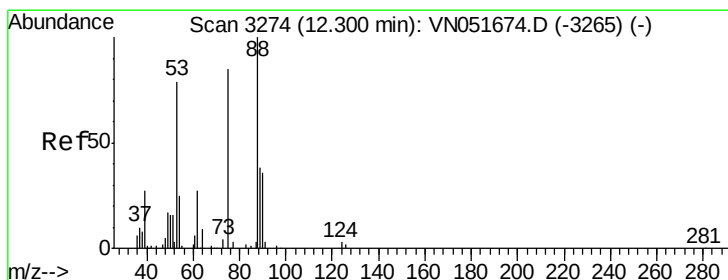
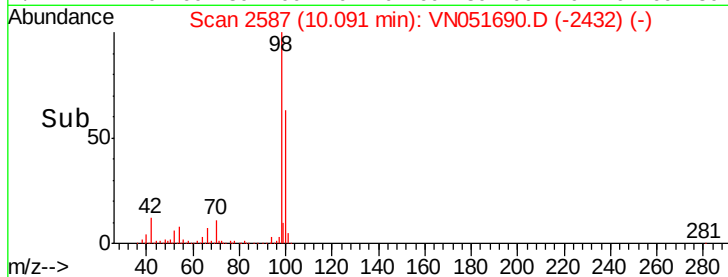
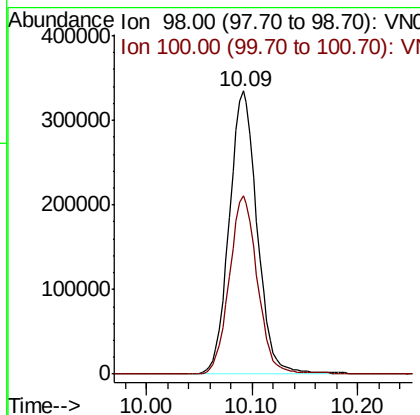
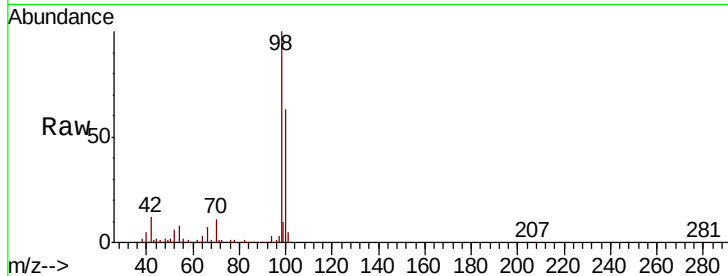




#63
Toluene-d8
Concen: 73.849 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051690.D
Acq: 5 Oct 2018 16:34

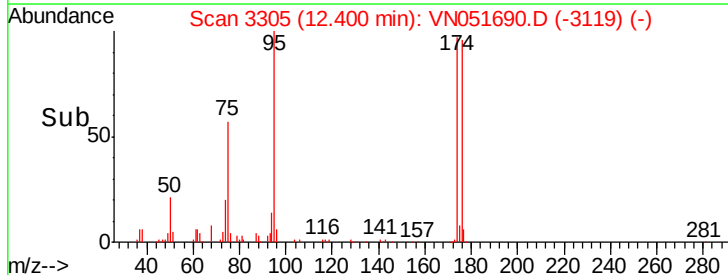
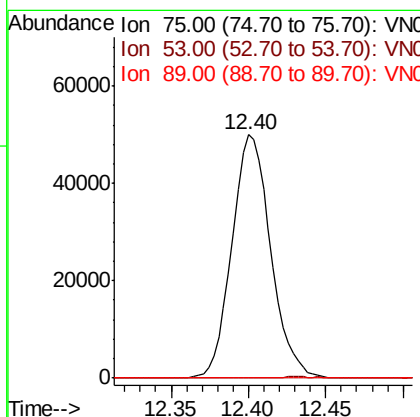
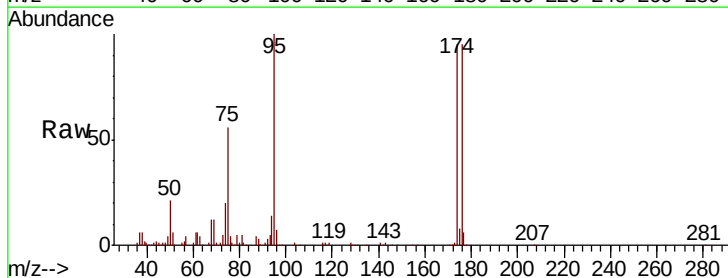
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

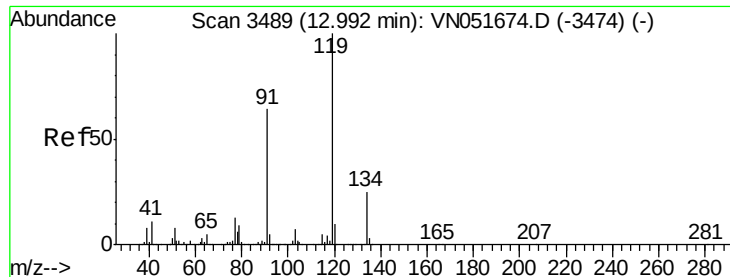
Tot Ion: 98 Resp: 611730
Ion Ratio Lower Upper
98 100
100 63.3 50.8 76.2



#77
t-1,4-Dichloro-2-butene
Concen: 52.821 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN051690.D
Acq: 5 Oct 2018 16:34

Tgt Ion: 75 Resp: 86854
Ion Ratio Lower Upper
75 100
53 0.0 46.3 138.9#
89 0.3 24.6 73.8#

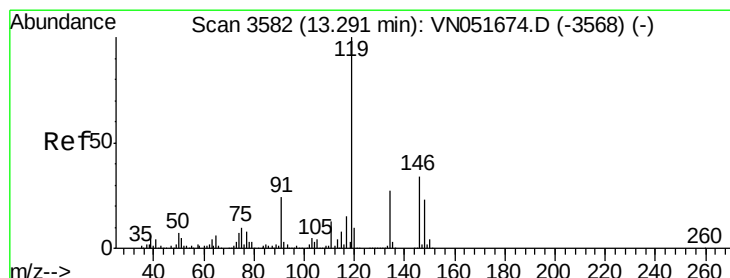
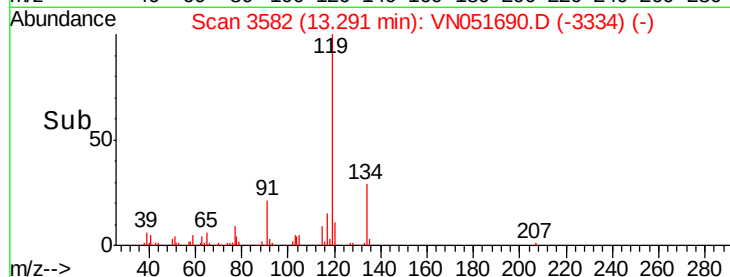
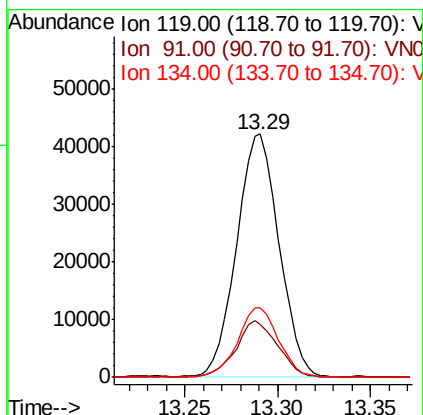
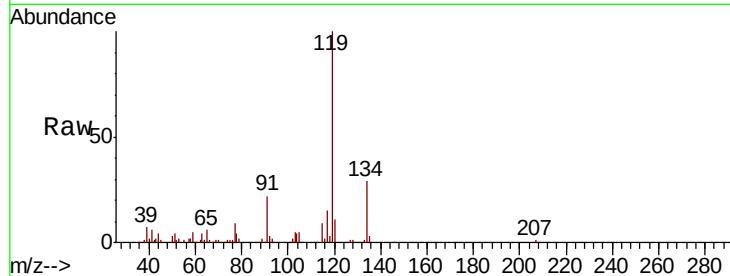




#79
tert-butylbenzene
Concen: 3.323 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.30 min
Lab File: VN051690.D
Acq: 5 Oct 2018 16:34

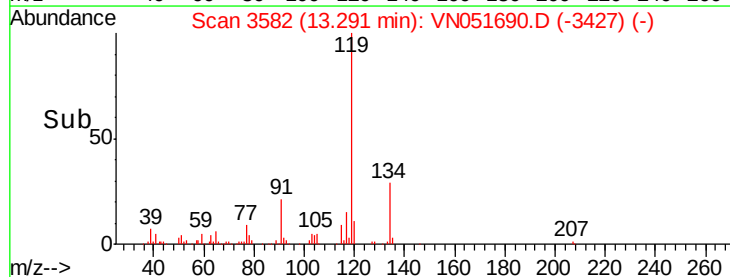
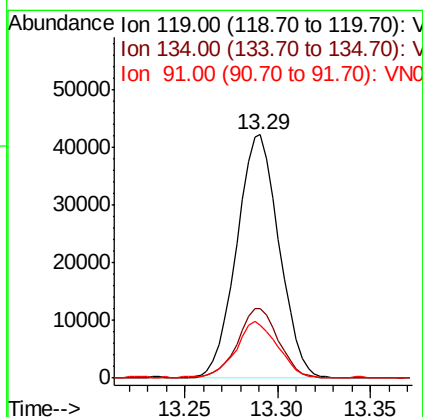
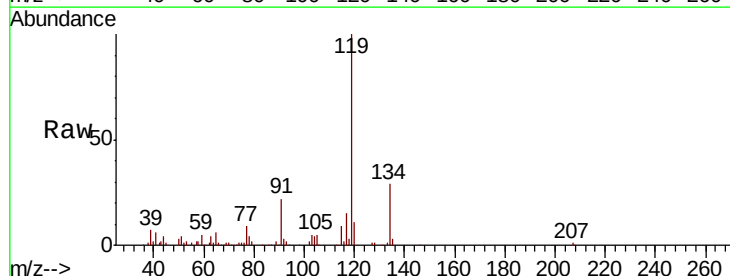
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

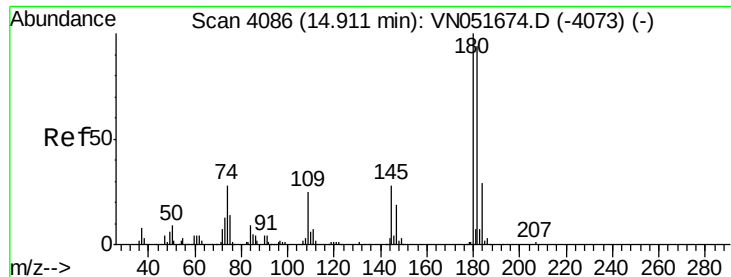
Tot Ion:119 Resp: 67128
Ion Ratio Lower Upper
119 100
91 23.1 0.0 131.6
134 27.4 0.0 46.2



#82
p-Isopropyltoluene
Concen: 2.819 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. -0.00 min
Lab File: VN051690.D
Acq: 5 Oct 2018 16:34

Tgt Ion:119 Resp: 67128
Ion Ratio Lower Upper
119 100
134 27.4 0.0 53.6
91 23.1 0.0 52.0





#89

1,2,4-Trichlorobenzene

Concen: 6.845 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051690.D

Acq: 5 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)

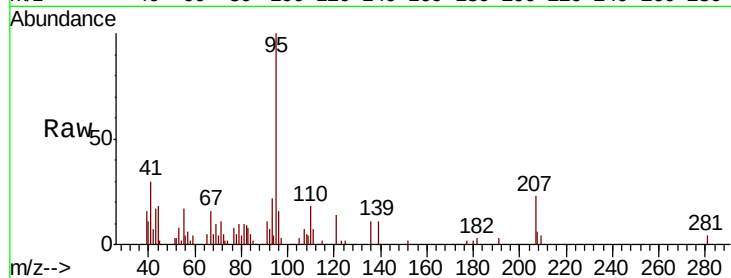
Tot Ion:180 Resp: 97

Ion Ratio Lower Upper

180 100

182 135.1 77.7 116.5#

145 0.0 23.4 35.2#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

